

8. Install the front cover (A, **Figure 39**) over the armature shaft. Align the marks on the front cover and the case (B, **Figure 39**).
9. Lubricate the O-rings (C, **Figure 19**) with oil.
10. Install the bolts, washers and O-rings and tighten the bolts securely.

NOTE

If one or both bolts will not pass through the starter, the end covers and/or brush plate are installed incorrectly.

STARTER RELAY SWITCH

System Test

System testing of the starter relay switch is described in *Electric Starting System* in Chapter Two.

Operation Check

1. Remove the seat (Chapter Fifteen), then remove the lid above the battery.

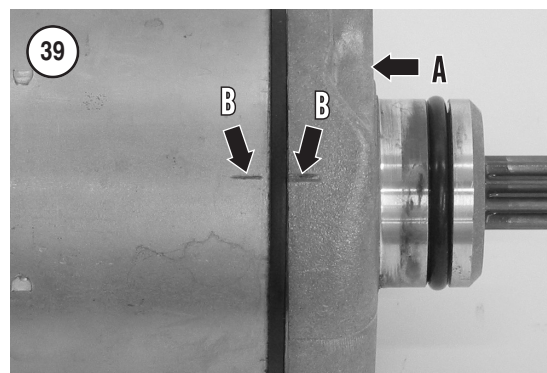
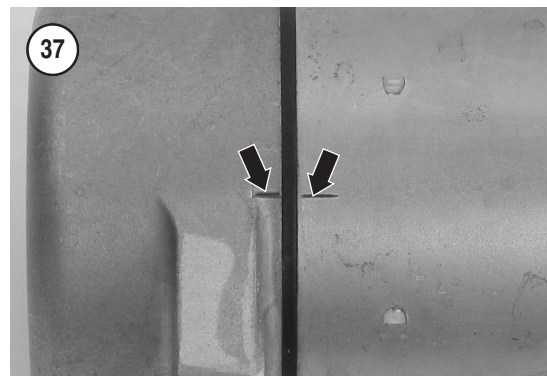
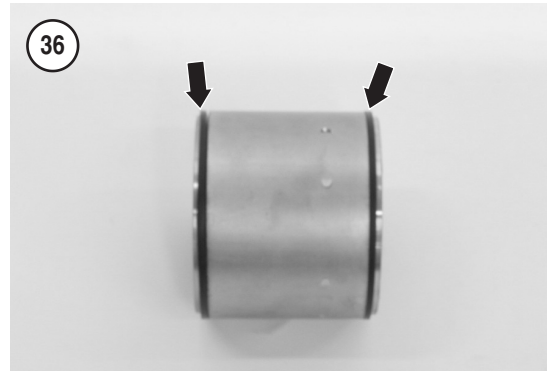
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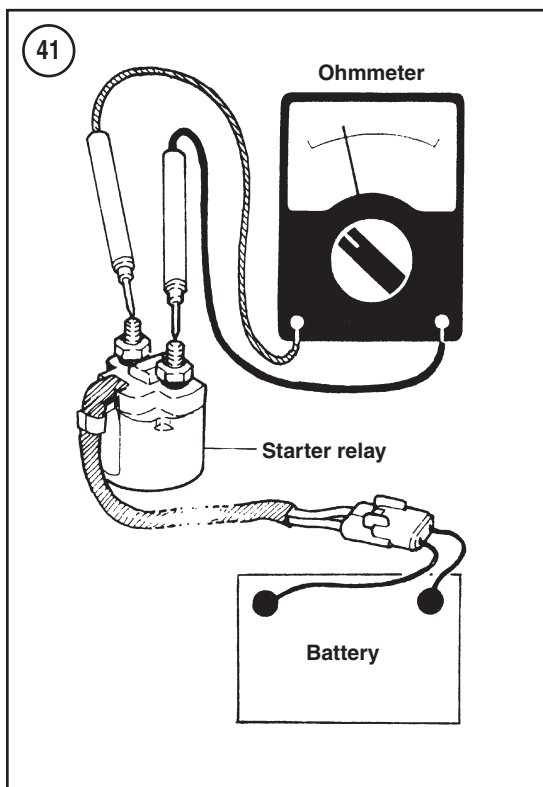
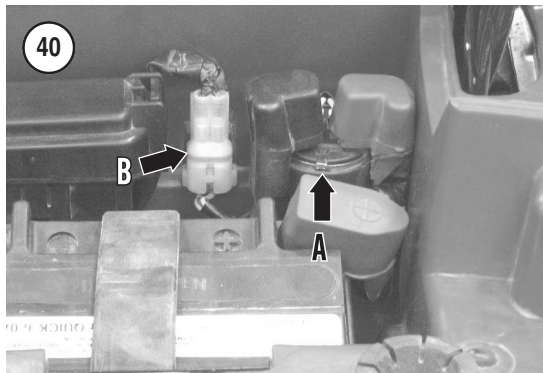
To remove the lid fasteners, rotate the screw counterclockwise fully, then pull out the fastener. When turned clockwise, the screw expands the fastener body to secure it in the hole.

2. Turn the ignition switch on and depress the starter button. The starter relay (A, **Figure 40**) should click. If the starter relay did not click, perform the *Voltage Test* in this section.
3. Turn the ignition switch off and install the seat (Chapter Fifteen).

Voltage Test

1. Remove the seat (Chapter Fifteen), then remove the lid above the battery.
2. Lift the rubber cover off the starter relay.
3. Disconnect the starter relay connector (B, **Figure 40**).
4. Connect a voltmeter between the starter relay connector yellow/red (+) and green/red (–) wire terminals at the wiring harness end of the connector.
5. Shift the transmission into neutral and turn the ignition switch on, then depress the starter button.





The voltmeter should read battery voltage. If the voltmeter reading is incorrect, perform the *Continuity Test* in this section.

6. Turn the ignition switch off.

7. Reverse Steps 1-3 to complete installation.

Continuity Test

1. Remove the starter relay switch as described in this chapter.
2. Connect an ohmmeter to the starter relay switch battery and starter terminals (**Figure 41**).
3. Momentarily connect a 12-volt battery to the starter relay switch terminals as shown in **Figure 41** while reading the resistance on the ohmmeter.
4. The ohmmeter should show continuity when battery voltage is applied and no continuity when the battery voltage is removed.
5. If either reading is incorrect, replace the starter relay switch and retest.

Removal/Installation

1. Remove the seat (Chapter Fifteen), then remove the lid above the battery.
2. Disconnect the negative battery cable from the battery (Chapter Three).
3. Disconnect the starter relay connector (B, **Figure 40**).
4. Slide the two covers away from the terminals on top of the starter relay switch.
5. Disconnect the battery and starter cables from the starter relay switch (**Figure 42**).
6. Remove the starter relay switch and its rubber mount from the frame.
7. Install the starter relay switch by reversing the preceding removal procedures.

DIODE

A diode is installed in the starting circuit. See the wiring diagrams at back of this manual.

Removal/Testing/Installation

1. Remove the seat (Chapter Fifteen), then remove the lid above the battery.
2. Remove the fuse box cover (**Figure 43**).
3. Pull out the diode (**Figure 44**).

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